Access DB# 65278

SEARCH REQUEST FORM

Scientific and Technical Inf rmation Center

Requester's Full Name: Ann-Marie Koss Examiner #: 78972 Date: 6/3/02
Art Unit: 1751 Phone Number 30 5-3176 Serial Number: 09/889,502
Mail Box and Bldg/Room Location: CP3 9830 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

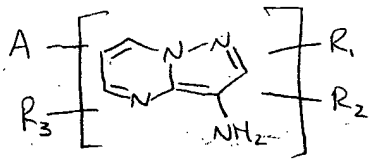
Inventors (please provide full names): Terranova et al

Earliest Priority Filing Date: _____

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Please search compound of formula (1) claim 23 and dependent claims therein

Where



Wherein A can be $-NR_4R_5$ or $-OH$
and 1 of R_1, R_2, R_3 must have $-N^{\oplus}$

Thanks

****

STAFF USE ONLY

Searcher: EL
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: _____
Date Completed: 4-26-02
Searcher Prep & Review Time: 30
Clerical Prep Time: _____
Online Time: 40

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) ✓(3)
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable

STN $156.85
Dialog _____
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

PTO-1590 (8-01)

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FILE 'REGISTRY' ENTERED AT 15:21:03 ON 26 APR 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES:   25 APR 2002  HIGHEST RN 408304-53-0
DICTIONARY FILE UPDATES:  25 APR 2002  HIGHEST RN 408304-53-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d his

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L3              STR L1
L4            3 S L3
L5              STR L3
L6            3 S L5
L7           27 S L5 FUL
                SAV L7 KOS503/A

     FILE 'CAOLD' ENTERED AT 15:11:08 ON 26 APR 2002
L8            0 S L7

     FILE 'ZCAPLUS' ENTERED AT 15:11:08 ON 26 APR 2002
L9            1 S L7

     FILE 'REGISTRY' ENTERED AT 15:21:03 ON 26 APR 2002

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L5              STR
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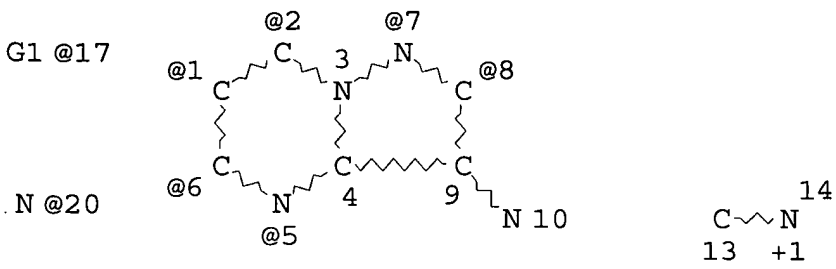


VAR G1=OH/20
VPA 17-8/7/2/1/6/5 U
NODE ATTRIBUTES:
CHARGE IS E+1 AT 14
NSPEC IS RC AT 13
NSPEC IS RC AT 14
NSPEC IS RC AT 20
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L7 27 SEA FILE=REGISTRY SSS FUL L5

100.0% PROCESSED 4282 ITERATIONS 27 ANSWERS
SEARCH TIME: 00.00.02

=> file zcaplus
FILE 'ZCAPLUS' ENTERED AT 15:21:18 ON 26 APR 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 26 Apr 2002 VOL 136 ISS 17
FILE LAST UPDATED: 24 Apr 2002 (20020424/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> d l9 1 ibib abs hitstr hitrn

L9 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:513700 ZCAPLUS
DOCUMENT NUMBER: 133:136754
TITLE: Novel cationic oxidation bases with a pyrazolo[1,5-a]pyrimidine structure, their use for oxidation dyeing of keratin fibers, dyeing compositions et dyeing methods
INVENTOR(S): Terranova, Eric; Fadli, Aziz; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043396	A1	20000727	WO 2000-FR73	20000114
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2788522	A1	20000721	FR 1999-503	19990119
FR 2788522	B1	20010216		
EP 1147109	A1	20011024	EP 2000-900581	20000114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: FR 1999-503 A 19990119
WO 2000-FR73 W 20000114
OTHER SOURCE(S): MARPAT 133:136754

AB The invention concerns novel 4-aminopyrazolo[1,5-a]pyrimidines comprising .gtoreq.1 cationic group Z, Z being selected among quaternized aliph. chains, aliph. chains comprising .gtoreq.1 quaternized ring, and their use as oxidn. base for dyeing keratin fibers, the dyeing compns. contg. them, and the oxidn. dyeing

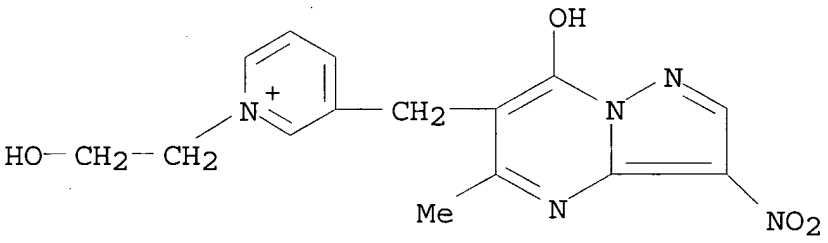
methods using them. These compds. allow dyeing of keratin fibers so that individual strands have multiple shades. Thus, reaction of 50 g 4-nitro-1H-pyrazol-3-ylamine hydrochloride 12 h at reflux with 60 g Et acetoacetate in HOAc, chlorination of 23.3 1st intermediate 2.5 h at reflux with 230 cm3 POCl3 in presence of 15.4 g PhNMe2, reaction of 4.5 g 2nd intermediate 2 h with 2.88 g 3-imidazol-1-ylpropylamine in a DMF-dioxane mixt. in presence of Et3N, reaction of 3 g 3rd intermediate 6 h at reflux with 10 g 2-chloroethanol, and redn. of the 4th intermediate gave 3-[3-(3-amino-5-methylpyrazolo[1,5]pyrimidin-7-ylamino)propyl]-1-(2-hydroxyethyl)-3H-imidazol-1-ium chloride, which was isolated as the dihydrochloride.

IT **286373-91-9P**

(quaternary ammonium base precursor; quaternary ammonium oxidn. bases with a pyrazolo[1,5-a]pyrimidine structure as precursors for oxidn. dyeing of hair)

RN 286373-91-9 ZCAPLUS

CN Pyridinium, 1-(2-hydroxyethyl)-3-[(7-hydroxy-5-methyl-3-nitropyrazolo[1,5-a]pyrimidin-6-yl)methyl]-, chloride (9CI) (CA INDEX NAME)



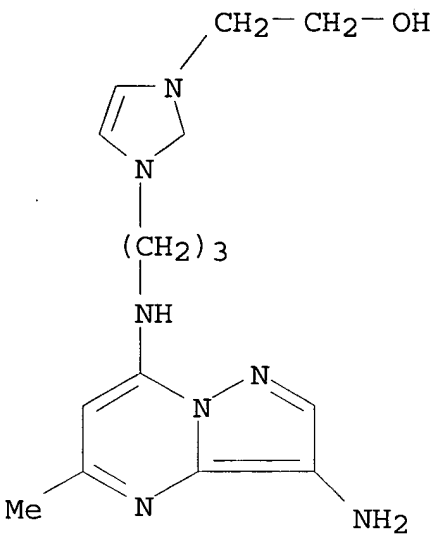
● Cl⁻

IT **286373-84-0P 286373-87-3P 286373-92-0P**
286373-94-2P 286373-96-4P 286373-98-6P
286374-00-3P 286374-02-5P 286374-04-7P
286374-05-8P 286374-07-0P 286374-08-1P
286374-10-5P 286374-11-6P 286374-13-8P
286374-14-9P

(quaternary ammonium oxidn. bases with a pyrazolo[1,5-a]pyrimidine structure as precursors for oxidn. dyeing of hair)

RN 286373-84-0 ZCAPLUS

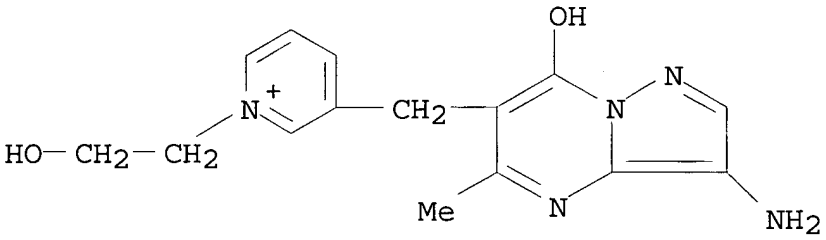
CN 1H-Imidazolium, 1-[3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]propyl]-3-(2-hydroxyethyl)-, chloride, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

● Cl^-

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 286373-87-3 ZCAPLUS
CN Pyridinium, 3-[(3-amino-7-hydroxy-5-methylpyrazolo[1,5-a]pyrimidin-6-yl)methyl]-1-(2-hydroxyethyl)-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

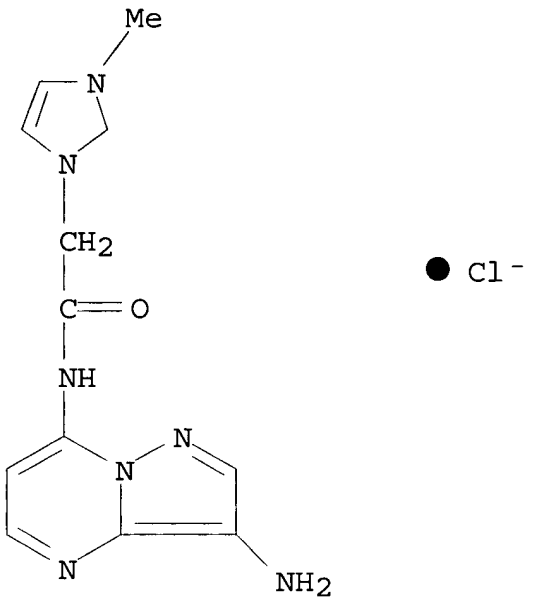


● Cl^-

HCl

RN 286373-92-0 ZCAPLUS
CN 1H-Imidazolium, 1-[2-[(3-aminopyrazolo[1,5-a]pyrimidin-7-yl)amino]-2-

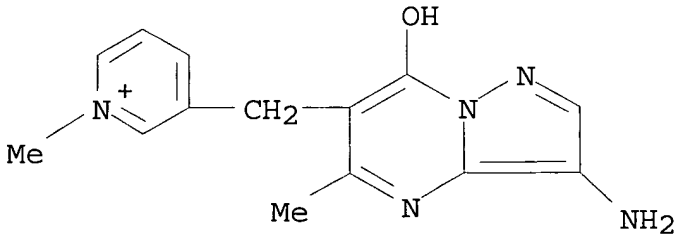
oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 286373-94-2 ZCAPLUS
CN Pyridinium, 3-[(3-amino-7-hydroxy-5-methylpyrazolo[1,5-a]pyrimidin-6-yl)methyl]-1-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 286373-93-1
CMF C14 H16 N5 O



CM 2

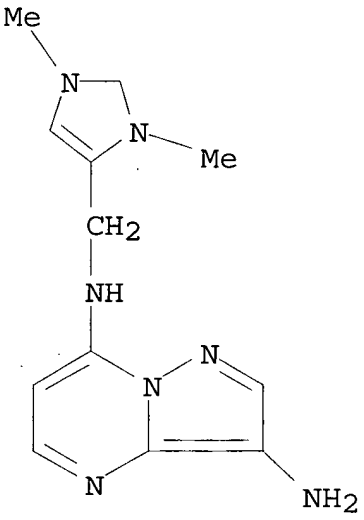
CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO_3^-

RN 286373-96-4 ZCAPLUS
CN 1H-Imidazolium, 4-[[(3-aminopyrazolo[1,5-a]pyrimidin-7-yl)amino]methyl]-1,3-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 286373-95-3
CMF C12 H16 N7



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

CM 2

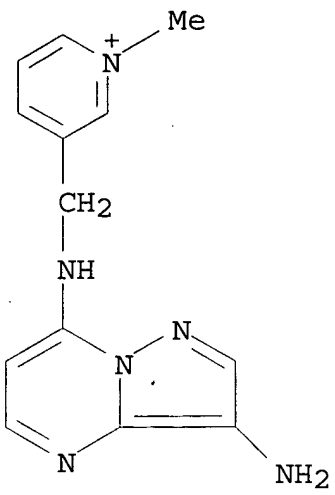
CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO_3^-

RN 286373-98-6 ZCAPLUS
CN Pyridinium, 3-[[(3-aminopyrazolo[1,5-a]pyrimidin-7-yl)amino]methyl]-1-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

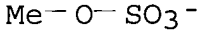
CM 1

CRN 286373-97-5
CMF C13 H15 N6



CM 2

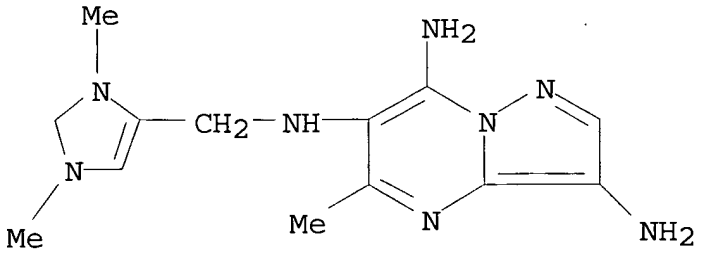
CRN 21228-90-0
CMF C H3 O4 S



RN 286374-00-3 ZCAPLUS
CN 1H-Imidazolium, 4-[[(3,7-diamino-5-methylpyrazolo[1,5-a]pyrimidin-6-yl)amino]methyl]-1,3-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 286373-99-7
CMF C13 H19 N8



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

CM 2

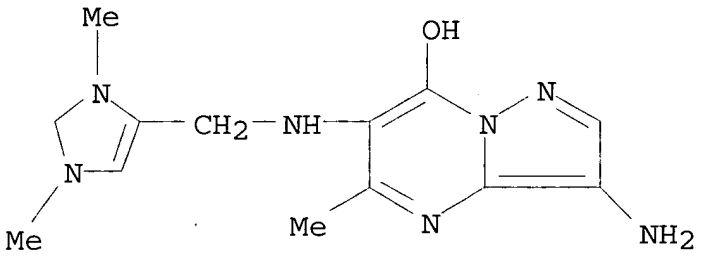
CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO_3^-

RN 286374-02-5 ZCAPLUS
CN 1H-Imidazolium, 4-[[(3-amino-7-hydroxy-5-methylpyrazolo[1,5-a]pyrimidin-6-yl)amino]methyl]-1,3-dimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 286374-01-4
CMF C13 H18 N7 O



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

CM 2

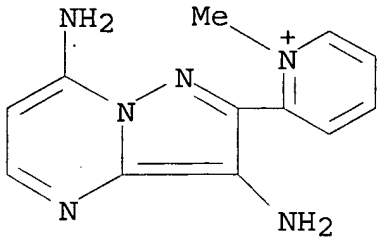
CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO_3^-

RN 286374-04-7 ZCAPLUS
CN Pyridinium, 2-(3,7-diaminopyrazolo[1,5-a]pyrimidin-2-yl)-1-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 286374-03-6
CMF C12 H13 N6



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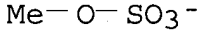
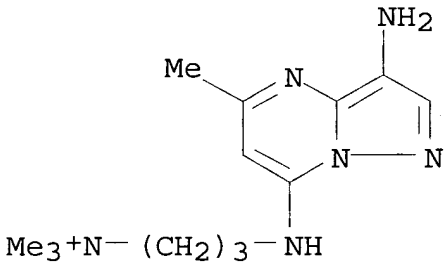
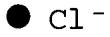
CRN 21228-90-0
CMF C H3 O4 S



RN 286374-05-8 ZCAPLUS
CN 1-Propanaminium, 3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

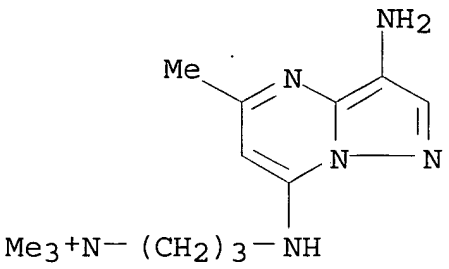




RN 286374-07-0 ZCAPLUS
CN 1-Propanaminium, 3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 286374-06-9
CMF C13 H23 N6



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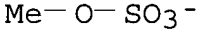
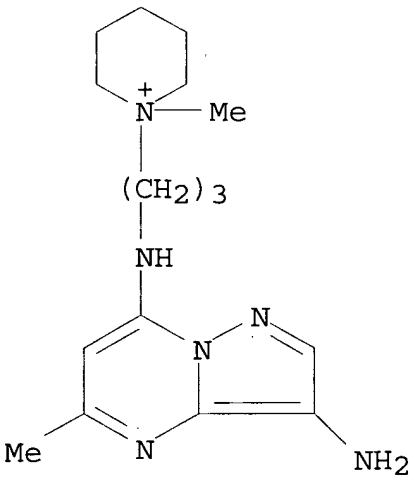
CRN 21228-90-0
CMF C H3 O4 S



RN 286374-08-1 ZCAPLUS
CN Piperidinium, 1-[3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]propyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 286374-10-5 ZCAPLUS
CN Piperidinium, 1-[3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]propyl]-1-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

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CRN 286374-09-2
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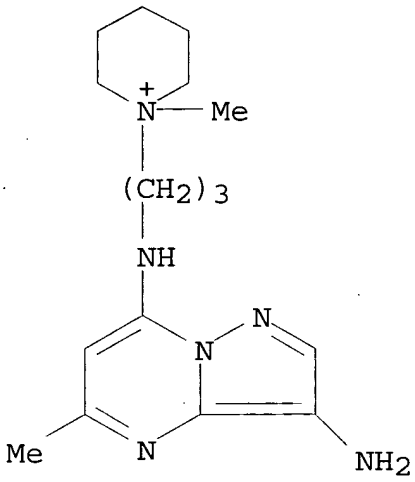

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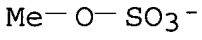
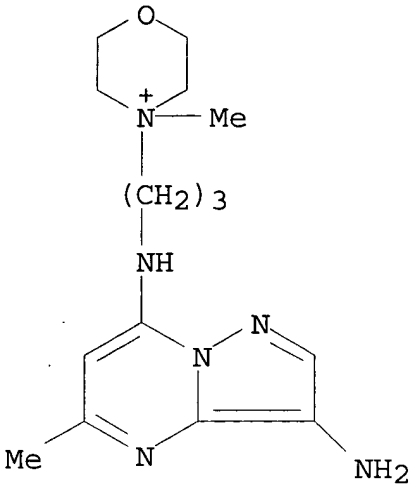
CRN 21228-90-0
CMF C H3 O4 S



RN 286374-11-6 ZCAPLUS
CN Morpholinium, 4-[3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]propyl]-4-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl^-

RN 286374-13-8 ZCAPLUS
CN Morpholinium, 4-[3-[(3-amino-5-methylpyrazolo[1,5-a]pyrimidin-7-yl)amino]propyl]-4-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

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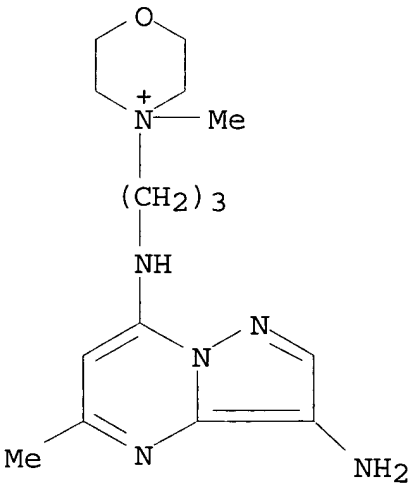
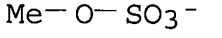
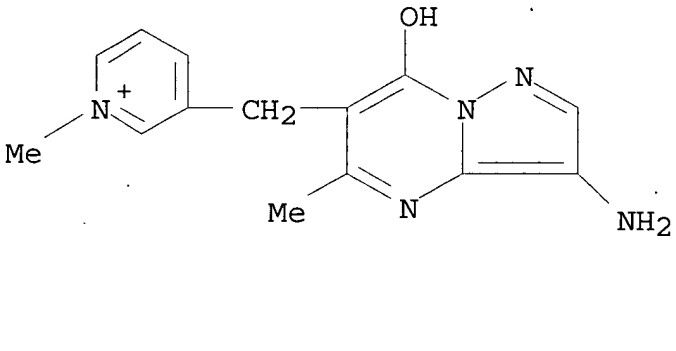


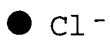
CM 2

CRN 21228-90-0
CMF C H3 O4 S

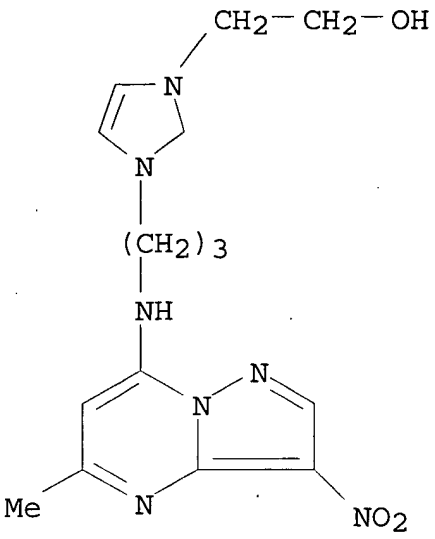


RN 286374-14-9 ZCAPLUS
CN Pyridinium, 3-[(3-amino-7-hydroxy-5-methylpyrazolo[1,5-a]pyrimidin-6-yl)methyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)





IT **286373-86-2P**
(quaternary ammonium oxidn. bases with a pyrazolo[1,5-a]pyrimidine structure as precursors for oxidn. dyeing of hair)
RN 286373-86-2 ZCAPLUS
CN 1H-Imidazolium, 1-(2-hydroxyethyl)-3-[3-[(5-methyl-3-nitropyrazolo[1,5-a]pyrimidin-7-yl)amino]propyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

*** FRAGMENT DIAGRAM IS INCOMPLETE ***

IT **286373-91-9P**

(quaternary ammonium base precursor; quaternary ammonium oxidn. bases with a pyrazolo[1,5-a]pyrimidine structure as precursors for oxidn. dyeing of hair)

IT **286373-84-0P 286373-87-3P 286373-92-0P 286373-94-2P 286373-96-4P 286373-98-6P 286374-00-3P 286374-02-5P 286374-04-7P 286374-05-8P 286374-07-0P 286374-08-1P 286374-10-5P 286374-11-6P 286374-13-8P 286374-14-9P**

(quaternary ammonium oxidn. bases with a pyrazolo[1,5-a]pyrimidine structure as precursors for oxidn. dyeing of hair)

IT **286373-86-2P**

(quaternary ammonium oxidn. bases with a pyrazolo[1,5-a]pyrimidine structure as precursors for oxidn. dyeing of hair)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT.